CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS RESULTS

FIELD RESULTS	HYDROLAB – YSI 6600				IN-HOFF CONE		
TIME	TEMP (^{o}C)	PH	DISSOLVED OXYGEN (mg/l)	SPECIFIC CONDUCTANCE (umhos/cm)	Settleable Solids (ml/l) 10 min	30 min	60 min
07:00	11.4	7.67	2.7	3399	<0.1	<0.1	<0.1
08:00	11.3	7.68	2.8	3399	0.2	0.2	0.2
09:00	11.3	7.68	3.1	3406	0.1	0.1	0.1
10:00	11.4	7.69	3.2	3413	0.1	0.1	0.1
11:00	11.6	7.65	3.0	3422	0.1	0.1	0.1
12:00	11.9	7.68	3.0	3416	0.1	0.2	0.2
13:00	12.2	7.70	3.3	3403	0.2	0.2	0.2
14:00	12.5	7.72	3.1	3381	0.2	0.2	0.2
15:00	12.9	7.69	2.3	3388	0.2	0.2	0.2
16:00	13.0	7.72	2.3	3379	0.1	0.1	0.2
17:00	13.1	7.70	1.9	3377	0.1	0.3	0.4
18:00	13.1	7.67	1.5	3371	0.2	0.3	0.4
19:00	13.1	7.68	1.5	3351	0.3	0.4	0.5
20:00	12.9	7.69	1.6	3335	0.3	0.4	0.5
21:00	12.6	7.67	1.5	3332			
22:00	12.3	7.69	1.7	3332			
23:00	12.1	7.69	1.9	3341			
24:00	11.9	7.68	2.0	3341			
01:00	11.9	7.67	2.2	3348			
02:00	11.9	7.67	2.2	3333	0.2	0.3	0.3
03:00	11.9	7.67	2.0	3350	0.2	0.3	0.3
04:00	11.8	7.66	2.2	3344	0.1	0.1	0.2
05:00	11.8	7.68	2.2	3349	0.1	0.1	0.1
06:00	11.6	7.67	2.2	3355			
JANUARY AVERAGE	12.1	7.68	2.3	3369	0.1	0.1	0.1
LAST 12 MONTHS AVE.	22.40	7.71	1.59	4,041	0.22	0.28	0.31

FIELD OBSERVATIONS:

0700 – 0900 Ambient temperature ranged from 12.8 ^{o}C to 18.5 ^{o}C. Cloudy sky. Watercolor is olive green. There is a slight noticeable septic odor. There is a lot of foam on the River's surface.
1100 – 1200 No changes, except little foam. Ambient temperature is 23 ^{o}C
1200 – 1400 Ambient temperature ranged from 23 ^{o}C to 28 ^{o}C. No other changes observed.
1500 – 1900 No changes. Ambient temperature ranged from 28 ^{o}C to 12.6 ^{o}C. Sun begun to set.
2000 – 2200 Ambient temperature is ranged from 11 ^{o}C to 10 ^{o}C. Very windy. No other changes observed.
2300 – 2400 Dead battery, ambient temperature was not recorded but it was very cold. No other changes were observed.
2400 – 0100 Dead battery, ambient temperature was not recorded but it was very cold. No other changes.
0100 – 0600 Dead battery, ambient temperature was not recorded but it was extremely cold. No other changes were observed.

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REG. WATER QUALITY CONTROL BOARD LAB			FECAL COLIFORM RESULTS (MPN/100ML)			
COLLECTION TIME	STORET CODE	ANALYSIS METHOD	JANUARY 2002	12 MONTHS AVE	MAX VALUE	MIN VALUE
11:00	316315	Multiple Tube Fermentation	50,000	285,000	800000	50000
12:00	316315	Multiple Tube Fermentation	50,000	487,500	2400000	20000
13:00	316315	Multiple Tube Fermentation	50,000	471,667	1300000	20000
13:30	316315	Multiple Tube Fermentation	70,000	251,667	700000	20000
14:00	316315	Multiple Tube Fermentation	110,000	435,833	1300000	80000
3:00	316315	Multiple Tube Fermentation	300,000	144,167	800000	300000
4:00	316315	Multiple Tube Fermentation	170,000	110,833	800000	130000
5:00	316315	Multiple Tube Fermentation	170,000	172,500	1100000	170000
5:30	316315	Multiple Tube Fermentation	220,000	235,000	1300000	220000
6:00	316315	Multiple Tube Fermentation	110,000	192,500	1100000	110000

DHS – SOUTHERN CALIFORNIA LABORATORY				CONSTITUENT RESULTS (MG/L)[1]			
	STORET CODE	US EPA METHOD	REPORTING LIMITS	JANUARY 2002	12 MONTHS AVERAGE	MAX VALUE	MIN VALUE
MBAS	38260	425.1	0.025	3.65	1.744	10.74	0.06
Total Phosphate as P	665	365.2	0.01	2.34	2.297	5.37	1.48
Phenol	32730	420.1	0.002	0.004	0.003	0.01	0.00
Cyanide	720	335.2	0.01	0.08	0.009	0.08	0.01
Ammonia-Nitrogen (NH_3-N)	610	350.2	0.05	8.16	7.492	19.50	0.57
Nitrate - Nitrogen (NO_3-N)	71850	353.2	0.2	0.34	0.344	1.70	0.10
Nitrite - Nitrogen (NO_2-N)	630	353.2	0.03	0.08	0.059	0.16	0.05
Hardness as ($CaCO_3$)	900	130.2	1	698	666	907	167
Total Alkalinity as ($CaCO_3$)	410	310.1	1	319	294	459	283
Bicarbonate (HCO_3)	00440	310.1	1	389	328	560	345
Total Filter Residue (TDS)	70300	160.1	10	2480	2355	2990	1640
Total Suspended Solids	530	160.2	10		38.5	86.00	20.00
Turbidity	82078	180.1	0.1	13.9	22.8	52.50	6.00
BOD	310	405.1	2	23	20.9	32.00	12.00
COD	340	410.4	5	52.6	57.3	132.00	35.10

DHS – SOUTHERN CALIFORNIA LABORATORY				TRACE METALS RESULTS (UG/L)[1]			
TRACE METALS	STORET CODE	US EPA METHOD	REPORTING LIMITS	JANUARY 2002	12 MONTH AVERAGE	MAX VALUE	MIN VALUE
As-Arsenic	1002	200.9	2	3	4.3	12.00	3.00
Cd-Cadnium	1027	200.9	1	ND	ND	ND	ND
Cr-Chromium	1034	200.9	10	ND	ND	14.00	14.00
Cu-Copper	1042	200.9	10	64	41.8	173.00	26.00
Pb-Lead	1051	200.9	10	ND	ND	24.00	24.00
Se-Selenium	1147	200.9	5	ND	ND	ND	ND
Zn-Zinc	1092	289.1	50	81	124.3	380.00	61.00
Hg-Mercury	71900	245.1	1	ND	ND	0.42	0.42

[1] Composite of eight water samples collected hourly.

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CONSTITUENT[2] (ug/l)	STORET CODE	JANUARY - 02 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
Benzene	34030	ND[3]	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	A-012	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Mehyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	32106	ND	ND	ND	0.58	0.74	0.73	0.68	0.57
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromenhane	32105	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	34571	0.62	0.53	0.66	0.85	0.96	0.95	0.82	0.71
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND

[2] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[3] ND = Concentration is reported below the detected limit.

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CONSTITUENT[4] (ug/l)	STORET CODE	JANUARY - 02 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
cis- & trans-1,3-Dichloropropylene	34561	ND[5]	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	34371	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumeme)	77223	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene (p-Cymene)	A-011	ND	ND	0.59	0.70	0.88	0.95	0.62	ND
Methylene chloride (Dichloromethane)	34423	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone[6]	81595	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone[7]	81596	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	A-030	ND	ND	ND	ND	0.85	0.63	0.57	0.56
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	34010	0.90	0.76	0.83	1.4	1.8	2.0	1.1	0.71
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	77222	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane (Freon 13)	81611	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	39175	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	A-014	ND	ND	0.55	0.67	0.65	0.67	ND	ND
o-Xylene	77135	ND	ND	ND	ND	ND	ND	ND	ND

[4] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[5] ND = Concentration is reported below the detected limit.
[6] Detection Limit is as reported 2.0
[7] Detection Limit is as reported 2.0